

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-7 (Canceled).

Claim 8 (Currently amended): A system for positioning a patient on a bed, said system comprising:

a camera system capable of producing output data representative of a portion of the patient wherein said output data is referenced in camera coordinates;

a memory storage device having reconstructed view data of the portion of the patient, said reconstructed view is referenced in scan data coordinates;

a processor, said processor receiving said output data and said reconstructed view data, and generating a plurality of directional values including at least first and second through fourth directional data values; and

an apparatus for positioning the bed, said apparatus moving the bed in a first direction and in a second direction in response to the respective first and second directional data values; and

a treatment device coupled to the processor, the treatment device movable in a third direction and a fourth direction in response to third and fourth directional data values.

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Claim 9 (Previously presented): The system of claim 8, wherein the memory storage device is included in a computer.

Claim 10 (Previously presented): The system of claim 8, wherein the processor is included in a computer.

Claim 11 (Previously presented): The system of claim 8, wherein the apparatus includes a motor operatively coupled to the bed.

Claim 12 (Previously presented): The system of claim 8, wherein at least one marker is attached to the patient and is detectable by said camera system.

Claims 13-18 (Canceled).